

```

chain nodes :
  25  26  27  28  29  31
ring nodes :
  1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24
chain bonds :
  3-31  5-25  10-25  12-26  15-27  18-29  20-29  26-27  27-28
ring bonds :
  1-2  1-6  2-3  3-4  4-5  5-6  7-8  7-12  8-9  9-10  10-11  11-12  13-14  13-18  14-15  15-16
  16-17  17-18  19-20  19-24  20-21  21-22  22-23  23-24
exact/norm bonds :
  3-31  5-25  10-25  12-26  19-20  19-24  20-21  21-22  22-23  23-24  26-27  27-28
exact bonds :
  15-27  18-29  20-29
normalized bonds :
  1-2  1-6  2-3  3-4  4-5  5-6  7-8  7-12  8-9  9-10  10-11  11-12  13-14  13-18  14-15  15-16
  16-17  17-18
isolated ring systems :
  containing 1 : 7 : 13 : 19 :
```

```

Match level :
  1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
  12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
  22:Atom 23:Atom 24:Atom 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 31:Atom
Generic attributes :
  31:
  Saturation      : Unsaturated
  Number of Carbon Atoms : less than 7
  Number of Hetero Atoms : Exactly 1
  Type of Ring System  : Monocyclic
```

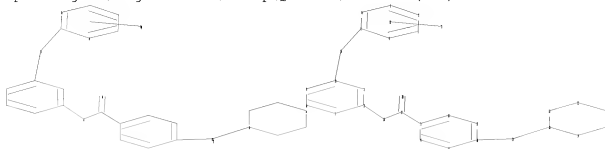
```

Element Count :
  Node 31: Limited
  C,C5
  N,N1
```

O,00
S,80

=>

Uploading C:\Program Files\Stnexp\Queries\10502291 (amd).str



```

chain nodes :
25 26 27 28 29 31
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24
chain bonds :
5-25 10-25 12-26 15-27 18-29 20-29 26-27 27-28
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18
14-15 15-16 16-17 17-18 19-20 19-24 20-21 21-22 22-23 23-24
exact/norm bonds :
5-25 10-25 12-26 19-20 19-24 20-21 21-22 22-23 23-24 26-27 27-28
exact bonds :
15-27 18-29 20-29
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18
14-15 15-16 16-17 17-18
isolated ring systems :
containing 1 : 7 : 13 : 19 :

```

Match level :

```

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS 26:CLASS 27:CLASS 28:CLASS
29:CLASS 31:Atom 32:Atom

```

Generic attributes :

31:
 Saturation : Unsaturated
 Number of Carbon Atoms : less than 7
 Number of Hetero Atoms : Exactly 1
 Type of Ring System : Monocyclic

Element Count :
 Node 31: Limited
 C,C5
 N,N1
 O,O0
 S,S0

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam

SAMPLE SEARCH INITIATED 21:06:32 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 188 TO ITERATE

100.0% PROCESSED 188 ITERATIONS

8 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 2938 TO 4582

PROJECTED ANSWERS: 8 TO 329

L2 8 SEA SSS SAM L1

=> => s l1 sss ful

FULL SEARCH INITIATED 21:08:00 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 4323 TO ITERATE

100.0% PROCESSED 4323 ITERATIONS

184 ANSWERS

SEARCH TIME: 00.00.01

L3 184 SEA SSS FUL L1

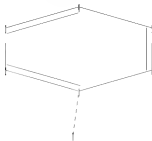
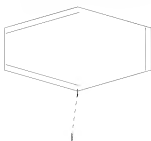
=> => s l3

L4 3644 L3

=>

=> =>

Uploading C:\Program Files\Stnexp\Queries\105022291 (sub 1).str



```
chain nodes :
7
ring nodes :
1 2 3 4 5 6
chain bonds :
1-7
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
1-7
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :
```

```
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS
```

L5 STRUCTURE UPLOADED

```
=> d l5
L5 HAS NO ANSWERS
L5                STR
```



Structure attributes must be viewed using STN Express query preparation.

```
=> s l5 sub=13 sss sam
```

10/502,291 (amd)

SAMPLE SUBSET SEARCH INITIATED 21:24:32 FILE 'REGISTRY'
SAMPLE SUBSET SCREEN SEARCH COMPLETED - 0 TO ITERATE

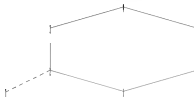
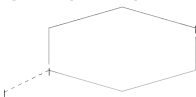
100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

PROJECTIONS (WITHIN SPECIFIED SUBSET):	ONLINE	**COMPLETE**	
PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET):	0 TO		0
PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET):	0 TO		0

L6 0 SEA SUB=L3 SSS SAM L5

=>

Uploading C:\Program Files\Stnexp\Queries\10502291 (sub 2).str



chain nodes :
7
ring nodes :
1 2 3 4 5 6
chain bonds :
2-7
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
1-2 1-6 2-3 2-7 3-4 4-5 5-6
isolated ring systems :
containing 1 :

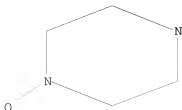
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS

L7 STRUCTURE UPLOADED

=> d 17

L7 HAS NO ANSWERS

L7 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s 17 sub=13 sss sam
SAMPLE SUBSET SEARCH INITIATED 21:26:22 FILE 'REGISTRY'
SAMPLE SUBSET SCREEN SEARCH COMPLETED -      0 TO ITERATE

100.0% PROCESSED          0 ITERATIONS          0 ANSWERS
SEARCH TIME: 00.00.01
```

```
PROJECTIONS (WITHIN SPECIFIED SUBSET):      ONLINE  **COMPLETE**
PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET):      0 TO      0
PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET):      0 TO      0
```

L8 0 SEA SUB=L3 SSS SAM L7

```
=> s 17 sub=13 sss ful
FULL SUBSET SEARCH INITIATED 21:26:30 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED -      4 TO ITERATE

100.0% PROCESSED          4 ITERATIONS          4 ANSWERS
SEARCH TIME: 00.00.01
```

L9 4 SEA SUB=L3 SSS FUL L7

```
=> s 15 sub=13 sss ful
FULL SUBSET SEARCH INITIATED 21:26:50 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED -     11 TO ITERATE

100.0% PROCESSED         11 ITERATIONS          4 ANSWERS
SEARCH TIME: 00.00.01
```

L10 4 SEA SUB=L3 SSS FUL L5

```
=> s 19 or l10
L11          8 L9 OR L10
```

```
=> file caplus
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                                ENTRY    SESSION
FULL ESTIMATED COST          86.96      279.39
```

FILE 'CAPLUS' ENTERED AT 21:27:11 ON 04 AUG 2008
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FILE LAST UPDATED: 3 Aug 2008 (20080803/ED)

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<http://www.cas.org/legal/infopolicy.html>

=> s l11

L12 5 L11

=> d l12 1-5 bib,ab,hitstr

L12 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2008:404120 CAPLUS

DN 148:575723

TI In vitro biotransformation of imatinib by the tumor expressed CYP1A1 and CYP1B1

AU Rochat, Bertrand; Zoete, Vincent; Grosdidier, Aurelien; von Grunigen, Sandrine; Marull, Marc; Michielin, Olivier

CS Quantitative Mass Spectrometry Facility, Centre Hospitalier Universitaire Vaudois, Lausanne, 1011, Switz.

SO Biopharmaceutics & Drug Disposition (2008), 29(2), 103-118
CODEN: BDDID8; ISSN: 0142-2782

PB John Wiley & Sons Ltd.

DT Journal

LA English

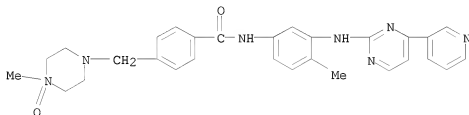
AB The main objective of the study was to examine the biotransformation of the anticancer drug imatinib in target cells by incubating it with oxidoreductases expressed in tumor cells. The second objective was to obtain an in silico prediction of the potential activity of imatinib metabolites. An in vitro enzyme kinetic study was performed with cDNA expressed human oxidoreductases and LC-MS/MS anal. The kinetic parameters (Km and Vmax) were determined for six metabolites. A mol. modeling approach was used to dock these metabolites to the target Abl or Bcr-Abl kinases. CYP3A4 isoenzyme showed the broadest metabolic capacity, whereas CYP1A1, CYP1B1 and FMO3 isoenzymes biotransformed imatinib with a high intrinsic clearance. The predicted binding modes for the metabolites to Abl were comparable to that of the parent drug, suggesting potential activity. These findings indicate that CYP1A1 and CYP1B1, which are known to be overexpressed in a wide range of tumors, are involved in the biotransformation of imatinib. They could play a role in imatinib disposition in the targeted stem, progenitor and differentiated cancer cells, with a possible contribution of the metabolites toward the activity of the drug.

IT 571186-91-9 571186-92-0

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(in vitro biotransformation of imatinib by tumor expressed CYP1A1 and CYP1B1)

RN 571186-91-9 CAPLUS

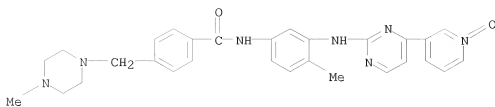
CN Benzamide, 4-[(4-methyl-4-oxido-1-piperazinyl)methyl]-N-[4-methyl-3-[[4-(3-pyridinyl)-2-pyrimidinyl]amino]phenyl]- (CA INDEX NAME)



RN 571186-92-0 CAPLUS

CN Benzamide, N-[4-methyl-3-[[4-(1-oxido-3-pyridinyl)-2-pyrimidinyl]amino]phenyl]-4-[(4-methyl-1-piperazinyl)methyl]- (CA INDEX NAME)

10/502,291 (amd)



RE.CNT 74 THERE ARE 74 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2007:345353 CAPLUS

DN 147:39589

TI Identification of imatinib mesylate degradation products obtained under stress conditions

AU Szczepiek, W. J.; Kosmacinska, B.; Bielejewska, A.; Luniewski, W.; Skarzynski, M.; Rozmarynowska, D.

CS Pharmaceutical Research Institute, Warsaw, 01-793, Pol.

SO Journal of Pharmaceutical and Biomedical Analysis (2007), 43(5), 1682-1691
CODEN: JPBADA; ISSN: 0731-7085

PB Elsevier B.V.

DT Journal

LA English

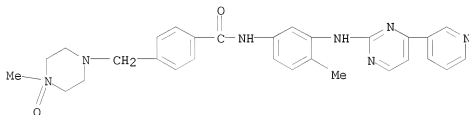
AB In this paper, the decomposition of imatinib mesylate (ImM) under hydrolytic (neutral, acidic, alkaline), oxidative and photolytic conditions was studied. The imatinib mesylate is practically photostable and stable under neutral conditions. The main degradation products under acidic and alkaline conditions are compds.: 4-methyl-N 3-(4-pyridin-3-yl-pyrimidin-2-yl)-benzene-1,3-diamine and 4-(4-methyl-piperazin-1-ylmethyl)-benzoic acid. The main degradation products under oxidation conditions, i.e. 4-[(4-methyl-4-oxido-piperazin-1-yl)-methyl]-N-[4-methyl-3-(4-pyridin-3-yl-pyrimidin-2-ylamino)-phenyl]-benzamide, 4-[(4-methyl-1-oxido-piperazin-1-yl)-methyl]-N-[4-methyl-3-(4-pyridin-3-yl-pyrimidin-2-ylamino)-phenyl]-benzamide and 4-[(4-methyl-1,4-dioxido-piperazin-1-yl)-methyl]-N-[4-methyl-3-(4-pyridin-3-yl-pyrimidin-2-ylamino)-phenyl]-benzamide, were isolated from the reaction mixts. and identified by the HPLC, 1H NMR and MS techniques. During stress study the suitability of the proposed HPLC method to control purity of the samples was verified.

IT 571186-91-9 571186-93-1 938082-57-6

RL: OCU (Occurrence, unclassified); PEP (Physical, engineering or chemical process); OCCU (Occurrence); PROC (Process)
(imatinib mesylate degradation products identification obtained under stress conditions)

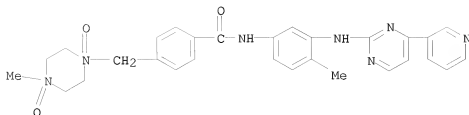
RN 571186-91-9 CAPLUS

CN Benzamide, 4-[(4-methyl-4-oxido-1-piperazinyl)methyl]-N-[4-methyl-3-[(4-(3-pyridinyl)-2-pyrimidinylamino]phenyl]- (CA INDEX NAME)



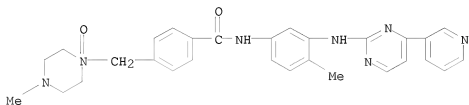
RN 571186-93-1 CAPLUS

CN Benzamide, 4-[(4-methyl-1,4-dioxido-1-piperazinyl)methyl]-N-[4-methyl-3-[[4-(3-pyridinyl)-2-pyrimidinylamino]phenyl]- (CA INDEX NAME)



RN 938082-57-6 CAPLUS

CN Benzamide, 4-[(4-methyl-1-oxido-1-piperazinyl)methyl]-N-[4-methyl-3-[[4-(3-pyridinyl)-2-pyrimidinyl]amino]phenyl]- (CA INDEX NAME)



RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2006:1337398 CAPLUS

DN 146:81891

TI Process for preparation of isotopically labeled imatinib and intermediates

IN Salter, Rhys; Rodriguez Perez, Maria Ines; Moenius, Thomas; Voges, Rolf;

Andres, Hendrik; Bordeaux, Kirk

PA Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.

SO PCT Int. Appl., 36pp.

CODEN: PIXX2D

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006133904	A2	20061221	WO 2006-EP5676	20060613
	WO 2006133904	A3	20070322		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	AU 2006257316	A1	20061221	AU 2006-257316	20060613
	CA 2610193	A1	20061221	CA 2006-2610193	20060613
	EP 1896447	A2	20080312	EP 2006-754340	20060613
	R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
	IN 2007DN09474	A	20080627	IN 2007-DN9474	20071207
	CN 101198601	A	20080611	CN 2006-80020947	20071212
	MX 200715876	A	20080304	MX 2007-15876	20071213
	KR 2008042066	A	20080514	KR 2008-700866	20080111
PRAI	GB 2005-12091	A	20050614		
	WO 2006-EP5676	W	20060613		

OS MARPAT 146:81891

AB This invention relates to a new process for preparation of isotopically labeled imatinib and intermediates. For example, 4-chloromethyl-N-[4-methyl-3-[4-(1-oxido-3-pyridinyl)]-[2-14C]-pyrimidin-2-ylamino]phenyl]benzamide hydrochloride (preparation given) was reacted with 1-methylpiperazine in ethanol, followed by the addition of methanesulfonic acid to give methanesulfonate of I [X = 14C]. Isotopically labeled intermediates were also described.

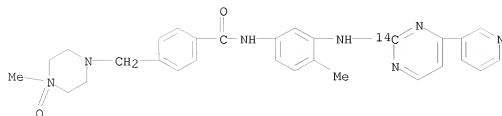
IT 917358-55-5P 917358-56-6P

RL: SPN (Synthetic preparation); PREP (Preparation)

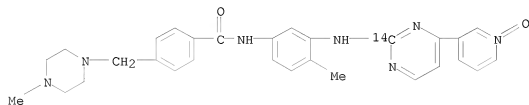
(preparation of isotopically labeled imatinib and intermediates)

RN 917358-55-5 CAPLUS

CN Benzamide, 4-[(4-methyl-4-oxido-1-piperazinyl)methyl]-N-[4-methyl-3-[[4-(3-pyridinyl)-2-pyrimidinyl-2-14C]amino]phenyl]- (CA INDEX NAME)



RN 917358-56-6 CAPLUS

CN Benzanide, N-[4-methyl-3-[[4-(1-oxido-3-pyridinyl)-2-pyrimidinyl-2-
14C]aminophenyl]-4-[(4-methyl-1-piperazinyl)methyl]- (CA INDEX NAME)

L12 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:1068885 CAPLUS

DN 143:338914

TI Metabolism and disposition of imatinib mesylate in healthy volunteers

AU Gschwind, Hans-Peter; Pfaar, Ulrike; Waldmeier, Felix; Zollinger, Markus; Sayer, Claudia; Zbinden, Peter; Hayes, Michael; Pokorny, Rolf; Seiberling, Michael; Ben-Am, Monique; Peng, Bin; Gross, Gerhard

CS Exploratory Development/Drug Metabolism & Pharmacokinetics, Novartis Pharma AG, Basel, Switz.

SO Drug Metabolism and Disposition (2005), 33(10), 1503-1512

CODEN: DMDSAI; ISSN: 0090-9556

PB American Society for Pharmacology and Experimental Therapeutics

DT Journal

LA English

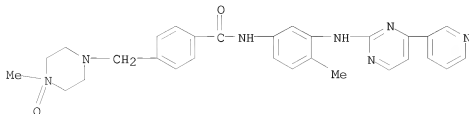
AB Imatinib mesylate (GLEEVEC, GLIVEC, formerly STI571) has demonstrated unprecedented efficacy as first-line therapy for treatment for all phases of chronic myelogenous leukemia and metastatic and unresectable malignant gastrointestinal stromal tumors. Disposition and biotransformation of imatinib were studied in four male healthy volunteers after a single oral dose of 239 mg of ¹⁴C-labeled imatinib mesylate. Biol. fluids were analyzed for total radioactivity, imatinib, and its main metabolite CGP74588. Metabolite patterns were determined by radio-high-performance liquid chromatog. with off-line microplate solid scintillation counting and characterized by liquid chromatog.-mass spectrometry. Imatinib treatment was well tolerated without serious adverse events. Absorption was rapid (t_{max} 1-2 h) and complete with imatinib as the major radioactive compound in plasma. Maximum plasma concns. were 0.921±0.095 µg/mL (mean ± S.D., n = 4) for imatinib and 0.115±0.026 µg/mL for the pharmacol. active N-desmethyl metabolite (CGP74588). Mean plasma terminal elimination half-lives were 13.5±0.9 h for imatinib, 20.6±1.7 h for CGP74588, and 57.3±12.5 h for ¹⁴C radioactivity. Imatinib was predominantly cleared through oxidative metabolism. Approx. 65 and 9% of total systemic exposure [AUC_{0-24 h} (area under the concentration time curve) of radioactivity] corresponded to imatinib and CGP74588, resp. The remaining proportion corresponded mainly to oxidized derivs. of imatinib and CGP74588. Imatinib and its metabolites were excreted predominantly via the biliary-fecal route. Excretion of radioactivity was slow with a mean radiocarbon recovery of 80% within 7 days (67% in feces, 13% in urine). Approx. 28 and 13% of the dose in the excreta corresponded to imatinib and CGP74588, resp.

IT 571186-91-9, CGP 71422 571186-92-0, CGP 72383

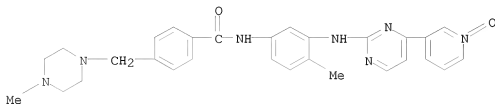
RL: BSU (Biological study, unclassified); BIOL (Biological study) (metabolism and disposition of imatinib mesylate in healthy volunteers)

RN 571186-91-9 CAPLUS

CN Benzamide, 4-[(4-methyl-4-oxido-1-piperazinyl)methyl]-N-[4-methyl-3-[[4-(3-pyridinyl)-2-pyrimidinyl]amino]phenyl]- (CA INDEX NAME)



RN 571186-92-0 CAPLUS
 CN Benzamide, N-[4-methyl-3-[[4-(1-oxido-3-pyridinyl)-2-pyrimidinyl]aminol]phenyl]-4-[(4-methyl-1-piperazinyl)methyl]- (CA INDEX NAME)



RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2003:591164 CAPLUS

DN 139:149642

TI Preparation of benzoylaminophenylaminopyrimidinylpyridines as antitumor agents

IN Boernsen, Klaus Olaf; End, Peter; Gross, Gerhard; Pfaar, Ulrike

FA Novartis Ag, Switz.; Novartis Pharma GmbH

SO PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DT Patent

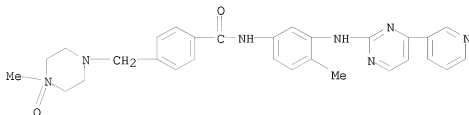
LA English

FAN.CNT 1

Applicant's

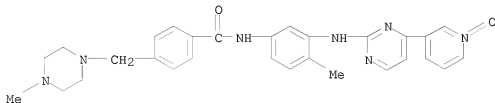
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PI	WO 2003062220	A1	20030731	WO 2003-EP613	20030122
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	RW: AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR				
	CA 2474104	A1	20030731	CA 2003-2474104	20030122
	EP 1470120	A1	20041027	EP 2003-731700	20030122
	EP 1470120	B1	20071212		
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	BR 2003007058	A	20041228	BR 2003-7058	20030122
	JP 2005519908	T	20050707	JP 2003-562099	20030122
	CN 1646519	A	20050727	CN 2003-802708	20030122
	EP 1783126	A2	20070509	EP 2007-101787	20030122
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	AT 380807	T	20071215	AT 2003-731700	20030122
	ES 2294293	T3	20080401	ES 2003-731700	20030122
	IN 2004CN01599	A	20060224	IN 2004-CN1599	20040720
	KR 778163	B1	20071128	KR 2004-711382	20040722
	MX 2004PA07130	A	20041029	MX 2004-PA7130	20040723
	US 20050209452	A1	20050922	US 2005-502291	20050429
	KR 2007058019	A	20070607	KR 2007-711065	20070515
PRAI	GB 2002-1508	A	20020123		
	EP 2003-731700	A3	20030122		
	WO 2003-EP613	W	20030122		
	KR 2004-711382	A3	20040722		
OS	MARPAT 139:149642				
AB	Title compds. I [R1 = , OH; R2 = H, alkyl, hydroxyalkyl; A = NR3R4, CR3R4, OR3R4; R3R4 = (un)substituted alkylene, oxaalkylene, azaalkylene; at least one N atom is substituted by O] were prepared for use as antitumor agents (no data). Thus, I [R1 = H, R2 = Me, A = 4-methyl-4-oxido-1-piperazinyl] was prepared by oxidation of I [R1 = H, R2 = Me, A = 4-methyl-1-piperazinyl].				
IT	571186-91-9P 571186-92-0P 571186-93-1P				
	RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)				
	(preparation of benzoylaminophenylaminopyrimidinylpyridines as antitumor agents)				
RN	571186-91-9 CAPLUS				

CN Benamide, 4-[(4-methyl-4-oxido-1-piperazinyl)methyl]-N-[4-methyl-3-[[4-(3-pyridinyl)-2-pyrimidinyl]aminolphenyl]- (CA INDEX NAME)



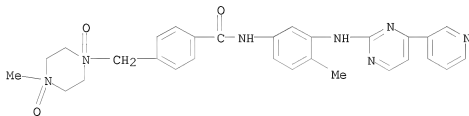
RN 571186-92-0 CAPLUS

CN Benamide, N-[4-methyl-3-[[4-(1-oxido-3-pyridinyl)-2-pyrimidinyl]aminolphenyl]-4-[(4-methyl-1-piperazinyl)methyl]- (CA INDEX NAME)



RN 571186-93-1 CAPLUS

CN Benamide, 4-[(4-methyl-1,4-dioxido-1-piperazinyl)methyl]-N-[4-methyl-3-[[4-(3-pyridinyl)-2-pyrimidinyl]aminolphenyl]- (CA INDEX NAME)



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/502,291 (amd)

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

27.73

307.12

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-4.00

-4.00

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